DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 73.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-004617 Address: 333 Burma Road **Date Inspected:** 13-Nov-2008

City: Oakland, CA 94607

Project Name: SAS Superstructure **OSM Arrival Time:** 800 **OSM Departure Time:** 1700 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: HoChang, Korea Location: Unyang, Korea

CWI Name: N/A **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A Yes N/A **Electrode to specification:** No **Weld Procedures Followed:** Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component:** Pier E2 bearing and Shear key

Summary of Items Observed:

The following report is based on METS observations at HoChang Machinery Industries. Current work: Casting, forging and machinning.

On this date the Caltrans Quality Assurance (QA) inspector, Dong J. Shin arrived at Ho Chang Machinery Industries (HCMI) located at Unyang, Korea. The Purpose of this trip was to observe quality control during fabricate and process of following items.

Forging

- 1. Bearing Bottom Housing (B1-07/F07302-010): Completed normalizing and heat treating
- 2. Bearing Bottom Housing (B2-07/F07302-020): Completed normalizing and heat treating
- 3. Bearing Bottom Housing (B3-07/F07302-030): Completed normalizing and heat treating
- 4. Bearing Bottom Housing (B4-07/F07302-040): Completed normalizing and heat treating
- 5. Spherical Ring (S1-07/F07302-050): Move to HCMI for rough machining.
- 6. Spherical Ring (S2-07/F07302-060): Move to HCMI for rough machining.

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- 7. Spherical Ring (S3-07/F07302-070): Move to HCMI for rough machining.
- 8. Spherical Ring (S4-07/F07302-080): Move to HCMI for rough machining.
- 9. Solid Shaft (B1-02/F07302-090): Move to HCMI for rough machining.
- 10. Solid Shaft (B2-02/F07302-100): Move to HCMI for rough machining.
- 11. Solid Shaft (B3-02/F07302-110): Move to HCMI for rough machining.
- 12. Solid Shaft (B4-02/F07302-120): Move to HCMI for rough machining.
- F number is DooSan Production Number.
- B number is drawing Number .

Casting

- 1. Bearing Top Housing(B1-06, C07039-010): Pattern making
- 2. Bearing Top Housing(B2-06, C07039-020)
- 3. Bearing Top Housing(B3-06, C07039-030)
- 4. Bearing Top Housing(B4-06, C07039-040)
- 5. Bearing Hold Down Assembly (B1-01-1, C07039-050)Pattern making
- 6. Bearing Hold Down Assembly (B1-01-2, C07039-060)Pattern making
- 7. Bearing Hold Down Assembly (B2-01-1, C07039-070)
- 8. Bearing Hold Down Assembly (B2-01-2, C07039-080)
- 9. Bearing Hold Down Assembly (B3-01-1, C07039-170)
- 10. Bearing Hold Down Assembly (B3-01-2, C07039-180)
- 11. Bearing Hold Down Assembly (B4-01-1, C07039-190)
- 12. Bearing Hold Down Assembly (B4-01-2, C07039-200)
- 13. Shear Key Stub(S1-01, C07039-090): Pattern making

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14. Shear Key Stub(S2-01, C07039-100)	(00)
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15. Shear Key Stub(S3-01, C07039-110):

16. Shear Key Stub(S4-01, C07039-120):

17. Shear key Housing(S1-03, C07039-130): pattern making

18. Shear key Housing(S1-03, C07039-130): pattern making

19. Shear key Housing(S1-03, C07039-130):

20. Shear key Housing(S1-03, C07039-130):

* S and B number is drawing number.

* C number is DSHI ID number

Blank is not started.

Summary of Conversations:

Discuss with Mr. S H, Kwak regarding Fabrication procedure and NDT procedure comments.

Checked machining schedule of Spherical ring with Mr. SH Kwak.

Ask production schedule of casting.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Jinesh K, Mehta (951) 840-0541, who represents the Office of Structural Materials for your project.

Inspected By:	Shin,DJ	Quality Assurance Inspector
Reviewed By:	Lanz,Joe	QA Reviewer